

Snowmass Agora #2

Circular e^+e^- Colliders

January 19, 2022

Welcome to the Second Snowmass Agora!

- Organized jointly by the Snowmass Accelerator and Energy Frontiers and Fermilab Future Colliders initiative.

<https://indico.fnal.gov/event/52534>

■ Accelerator Agora Events (~ once a month, 3-5 pm Wednesdays)

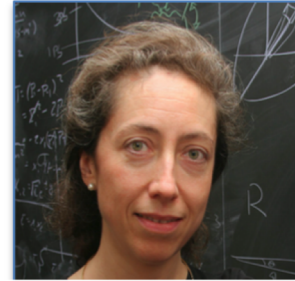
Today →	Linear e+e- Colliders	December 15, 2021
	Circular e+e- Colliders	January 19, 2022
	Muon Colliders	February 16, 2022
	pp and ep Colliders	March 16, 2022
	Advanced Colliders	April 13, 2022

Program Committee

Energy Frontier Conveners



Meenakshi Narain
(Brown U)



Laura Reina
(FSU)



Alessandro Tricoli
(BNL)

Accelerator Frontier Conveners



Steve Gourlay (LBNL)



Tor Raubenheimer (SLAC)



Vladimir Shiltsev (FNAL)

Fermilab Future Colliders Initiative



Pushpa Bhat



Joel Butler

Moderators of the Agora today January 19, 2022



Sarah Eno (University of Maryland)



John Seeman (SLAC)

You will have an opportunity to ask questions during the session.

Today's Agenda

Wed 19/01



Print

PDF

Full screen

Detailed view

Filter

15:00

Welcome & Introduction

TBD, Sarah Eno, John Seeman



15:00 - 15:05

Physics at Circular e+e- Colliders

Alain Blondel



15:05 - 15:20

Future Circular Collider (FCC-ee)

Frank Zimmermann



15:20 - 15:35

Circular electron-positron Collider (CepC)

Jie Gao



15:35 - 15:50

Small Circular Colliders (LEP3, FNAL Site Filler)

Eliana Gianfelice



16:00

15:50 - 16:05

ERL-based e+e- colliders

Vladimir Litvinenko

16:05 - 16:20

Q&A and Moderated Discussion

John Seeman, Sarah Eno

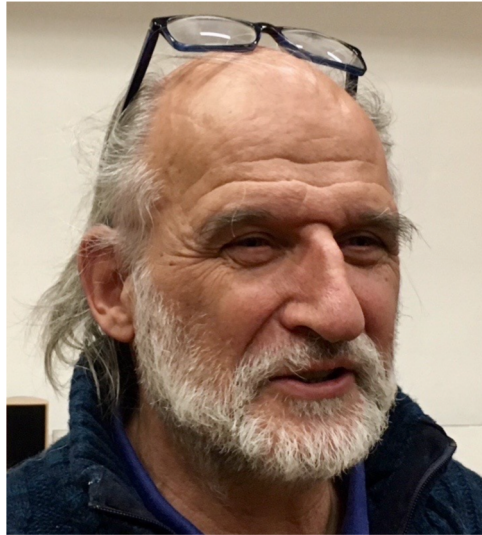
16:20 - 17:00

17:00

Informal Post-Agora Chat

17:00 - 17:30

Alain Bondel: Physics at Circular e⁺e⁻ Colliders



Alain Blondel is one of the instigators of the EW scale e⁺e⁻ circular colliders since 2011.

Main achievements rewarded with international prizes:

- 90's LEP precision measurements (Number of neutrinos, Z mass etc.),
- 2000's Initiator and "spokesmouse" of the MICE experiment
- 2010's T2K and neutrino oscillations.

Frank Zimmermann: Future Circular e⁺e⁻ Collider (FCC-ee)



Frank Zimmermann is a senior scientist at CERN, and the deputy leader of the Future Circular Collider (FCC) study.

He also is the Editor of the APS journal PRAB, and this year he serves as the Chair of the APS Division of Physics of Beams (DPB).

In the past he worked on several operating colliders, including HERA, SLC, PEP-II, KEKB, Tevatron, and LHC.

Jie Gao: Circular Electron-Positron Collider (CEPC)



Prof. Jie Gao is a professor at the Institute of High Energy Physics, CAS, China, CEPC IB Vice Chair, CEPC Accelerator Convener, CERN MAC member, former ICFA LCB member

Eliana Gianfelice-Wendt: Small Circular Colliders (LEP3, FNAL site Filler)



Eliana Gianfelice-Wendt is a senior scientist at Fermilab where she works on beam optics and dynamics. She collaborates with the FCC and EIC teams on the lepton beam polarization.

Before, Eliana worked at DESY (Germany) contributing to the success of HERA e^\pm beam polarization program. She started her activities in the field of accelerator physics as a CERN Fellow and afterwards as a INFN staff member.

Vladimir Litvinenko: ERL-based e⁺e⁻ colliders



Vladimir Litvinenko is Professor of Physics at Stony Brook University and Director of Center for Accelerator Sciences and Education with joint appointment at BNL. His interests extend from colliders and hadron beam cooling to FELs and gamma-ray sources.

Code of Conduct for this meeting:

Please be advised that you are required to comply with the APS code of Conduct for meetings, DPF Core Principles and Community Guidelines and Fermilab Statement of Community Standards.

– <https://indico.fnal.gov/event/52534>

Recording of the session:

Please note that we are recording the whole session. The video recording will be made available on the web site later.

Q&A session:

Please stay muted until you raise your hand and are called upon.

The moderators will alternate between real time and submitted questions.